

Serial No. 10/057,229

Page 2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An APU auxiliary power unit (APU) starter system comprising:
 - a source of pressurized air that comprises ~~a pair of~~ one or more high-pressure storage vessels each having an aluminium-lined composite configuration, filled with compressed air;
 - 5 a source of jet fuel;
 - a turbine power module attached to an APU;
 - an air flow passageway joining the source of pressurized air to the turbine power module;
 - 10 a fuel flow passageway joining the source of jet fuel to the turbine power module; and
 - a second air flow passageway joining the source of pressurized air to a fuel expulsion device for expelling fuel from the source of jet fuel through the fuel flow passageway; and
 - 15 a separate valve assembly located in each flow passageway for controlling the flow of compressed air and jet fuel into the turbine power module.
2. (Canceled)
3. (Canceled)
4. (Original) The APU starter according to Claim 1, wherein the valve assembly located in the air flow passageway comprises a modulating air control

Serial No. 10/057,229

Page 3

valve and a separate regulator and shutoff valve located between the air control valve and the source of pressurized air.

5. (Original) The APU starter according to Claim 1, wherein the valve assembly located in the air flow passageway comprises a fixed orifice valve and a shutoff valve located between the fixed orifice and the source of pressurized air.

6. (Original) The APU starter according to Claim 1, wherein the valve assembly located in the fuel flow passageway comprises a modulating fuel control valve.

7. (Original) The APU starter according to Claim 1, wherein the valve assembly located in the fuel flow passageway comprises a fixed valve orifice.

8. (Currently amended) An APU auxiliary power unit (APU) starter system comprising:

a source of pressurized air;

5 a source of jet fuel that comprises a fuel tank including an expulsion device for expelling the fuel from the tank;

a turbine power module attached to an APU;

an air flow passageway joining the source of pressurized air to the turbine power module;

10 a fuel flow passageway joining the fuel tank to the turbine power module; and

a second air flow passageway joining the source of pressurized air to the expulsion device; and

a separate valve assembly located in each flow passageway for controlling the flow of compressed air and jet fuel into the turbine power module.

Serial No. 10/057,229

Page 4

9. (Currently amended) An ~~APU~~ auxiliary power unit (APU) starter system, comprising:

a source of pressurized air that comprises ~~a pair of~~ one or more high-pressure storage vessels each having an aluminum-lined composite configuration, filled with compressed air;

a source of jet fuel comprising a fuel tank;

a turbine power module attached to an APU;

an air flow passageway joining at least one storage vessel to the turbine power module;

a fuel flow passageway joining the fuel tank to the turbine power module; and

a second air flow passageway joining the source of pressurized air to a fuel expulsion device for expelling fuel from the fuel tank through the fuel flow passageway; and

a separate valve assembly located in each flow passageway for controlling the flow of compressed air and jet fuel into the turbine power module.

10. (Canceled)

11. (Canceled)

12. (Previously presented) The APU starter according to Claim 11, wherein the expulsion device comprises at least one component selected from a group essentially comprising a bladder-type expulsion device, a piston, a diaphragm, and a free-surface device.

13. (Original) The APU starter according to Claim 9, wherein the valve assembly located in the air flow passageway further comprises a modulating air control valve and a separate regulator and shutoff valve located between the air control valve and the source of pressurized air.

Serial No. 10/057,229

Page 5

14. (Original) The APU starter according to Claim 9, wherein the valve assembly located in the air flow passageway further comprises a fixed orifice valve and a shutoff valve located between the fixed orifice and the source of pressurized air.

15. (Original) The APU starter according to Claim 9, wherein the valve assembly located in the fuel flow passageway comprises a modulating fuel control valve.

16. (Original) The APU starter according to Claim 9, wherein the valve assembly located in the fuel flow passageway comprises a fixed orifice valve.

17. (Currently amended) An APU auxiliary power unit (APU) starter system, comprising:

a source of pressurized air comprising at least one storage vessel;

a source of jet fuel comprising a fuel tank;

5 a turbine power module attached to an APU;

an air flow passageway joining the at least one storage vessel to the turbine power module;

a fuel flow passageway joining the fuel tank to the turbine power module; and

10 a second air flow passageway joining the source of pressurized air to a fuel expulsion device for expelling fuel from the fuel tank through the fuel flow passageway; and

a modulating valve assembly located in the air flow passageway and a control valve located in the fuel flow passageway for controlling the flow of compressed air and jet fuel into the turbine power module,

15 wherein the APU starter system excludes a pressure transducer and a temperature sensor.

Serial No. 10/057,229

Page 6

18. (Original) The APU starter according to Claim 17, wherein the modulating valve assembly located in the air flow passageway comprises a modulated air control valve and a separate shutoff valve located between the modulated air control valve and the source of pressurized air.

19. (Previously presented) The APU starter according to Claim 17, wherein the control valve comprises a fixed orifice valve located between the fuel tank and the turbine power module.

20. (Currently amended) A method of starting an APU auxiliary power unit (APU), comprising the steps of:

energizing a control valve located in an air flow system between a source of pressurized air and a turbine power module;

5 energizing a control valve located in a fuel flow system between a source of jet fuel and the turbine power module;

expelling fuel from the source of jet fuel by pressurizing a fuel expulsion device with an air flow from the source of pressurized air;

10 igniting a mixture of air and fuel within the turbine power module to create a stream of hot gases; and

directing the stream of hot gases onto turbine blades for rotating the blades to drive the APU through a gearbox;

wherein the APU excludes a pressure transducer and a temperature sensor.

21. (Currently amended) An APU auxiliary power unit (APU) starter system, comprising:

a source of pressurized air;

a fuel tank including an expulsion device for expelling the fuel from

5 the tank;

a turbine power module attached to an APU;

Serial No. 10/057,229

Page 7

an air flow passageway joining the at least one storage vessel to the turbine power module;

10 a fuel flow passageway joining the fuel tank to the turbine power module; and

a second air flow passageway joining the source of pressurized air to the fuel expulsion device for expelling fuel from the fuel tank through the fuel flow passageway; and

15 a separate valve assembly located in each flow passageway for controlling the flow of compressed air and jet fuel into the turbine power module.

22. (Currently amended) The APU starter system according to Claim 2021, wherein the source of compressed air further comprises at least one high-pressure storage vessel.

23. (Previously presented) The APU starter system according to Claim 22, wherein the at least one storage vessel further comprises a pair of high-pressure storage vessels each having an aluminum-lined composite configuration, filled with compressed air.

24. (Currently amended) The APU starter system according to Claim 2021, wherein the expulsion device further comprises at least one component selected from a group essentially comprising a bladder-type expulsion device, a piston, a diaphragm, and a free-surface device.

25. (Currently amended) The APU starter system according to Claim 2021, wherein the valve assembly located in the air flow passageway comprises a modulating air control valve and a separate regulator and shutoff valve located between the air control valve and the source of pressurized air.

Serial No. 10/057,229

Page 8

26. (Currently amended) The APU starter system according to Claim 2021, wherein the valve assembly located in the air flow passageway comprises a fixed orifice valve and a shutoff valve located between the fixed orifice and the source of pressurized air.

27. (Currently amended) The APU starter system according to Claim 2021, wherein the valve assembly located in the fuel flow passageway comprises a modulating fuel control valve.

28. (Currently amended) The APU starter system according to Claim 2021, wherein the valve assembly located in the fuel flow passageway comprises a fixed orifice valve.